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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/560,400	12/12/2005	Haruyo Fukui	4929/PCT	2788
21553 7590 10/05/2007 FASSE PATENT ATTORNEYS, P.A.		EXAMINER		
P.O. BOX 726			TURNER, AR	RCHENE A
HAMPDEN, M	, ME 04444-0726 ART UNIT		ART UNIT	PAPER NUMBER
			1794	
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			10/05/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/560,400	FUKUI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Archene Turner	1775				
The MAILING DATE of this communication apperiod for Reply	pears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	PATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 12 L	December 2005.	•				
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
• • • •) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4) ⊠ Claim(s) 1-11 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-11 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/o	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examina 10) The drawing(s) filed on is/are: a) accomposed any objection to the Replacement drawing sheet(s) including the correct of the oath or declaration is objected to by the Examination.	cepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is of	ee 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	·					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12/05 	4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other:	Date				

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1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 2 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 2 includes a nitride, carbonitride, an oxynitride and a carboxynitride of S, which is not provided for in claim 1.

3. Claim 8 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The phrase "WC-based" renders the claim indefinite.

4. A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. See MPEP § 2173.05(c). Note the explanation given by the Board of Patent Appeals and Interferences in *Ex parte Wu*, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely

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exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of *Ex parte Steigewald*, 131 USPQ 74 (Bd. App. 1961); *Ex parte Hall*, 83 USPQ 38 (Bd. App. 1948); and *Ex parte Hasche*, 86 USPQ 481 (Bd. App. 1949). In the present instance, claim 9 recites the broad recitation types of tools, and the claim also recites particular inserts which is the narrower statement of the range/limitation.

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 6. Claims 1-11 are rejected under 35 U.S.C. 102(e) as being anticipated by Ishikawa (7,166,155) or Yamamoto et al (6,824,601).

Ishikawa or Yamamoto et al discloses the claimed coating with the claimed composition on the claimed substrate within the claimed thickness made by the claimed method used for the claimed tools. Since Ishikawa or Yamamoto et al discloses the claimed coating the claimed hardness and (hmax – hf)/hmax values are considered inherent.

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7. Claims 1, 4-11 are rejected under 35 U.S.C. 102(e) as being anticipated by Yamamoto et al (6,767,658) or Ishikawa et al (6,585,122).

Yamamoto et al or Ishikawa et al discloses the claimed coating with the claimed composition on the claimed substrate within the claimed thickness made by the claimed method used for the claimed tools. Since Yamamoto et al or Ishikawa et al discloses the claimed coating the claimed hardness and (hmax – hf)/hmax values are considered inherent.

8. Claims 1, 4-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Hitachi Tools (JP 2002-337007).

Hitachi Tools discloses the claimed coating with the claimed composition on the claimed substrate within the claimed thickness made by the claimed method used for the claimed tools. Since Hitachi Tools discloses the claimed coating the claimed hardness and (hmax – hf)/hmax values are considered inherent.

9. Claims 1, 4, 6-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Hitachi Tools (JP 2000-326108).

Hitachi Tools discloses the claimed coating with the claimed composition on the claimed substrate within the claimed thickness made by the claimed method used for the claimed tools. Since Hitachi Tools discloses the claimed coating the claimed hardness and (hmax – hf)/hmax values are considered inherent.

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10. Claims 1-4,6-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Hitachi Tools (JP 11-131216 or JP 09-295204) or Kobe Steel (JP 08-120445) or Tanka et al (5.580.653).

Hitachi Tools or Kobe Steel or Tanaka et al discloses the claimed coating with the claimed composition on the claimed substrate within the claimed thickness made by the claimed method used for the claimed tools. Since Hitachi Tools or Kobe Steel or Tanaka et al disclose the claimed coating the claimed hardness and (hmax – hf)/hmax values are considered inherent.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Archene Turner whose new telephone number is (571) 272-1545. The examiner can normally be reached on Monday, Wednesday through Friday from 10:30 am. to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer McNeil can be reached on (571) 272-1540. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Please remember to include on the fax, the art unit 1775, serial number and Examiner's name.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A. A. Turner Primary Examiner Group 1700

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